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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/575,958	04/12/20	006	Sylvain Duvillard	FR03 0120 US1	5667	
65913 NXP, B.V.	7590	06/01/2007	77		EXAMINER	
NXP INTELL M/S41-SJ	ECTUAL PRO	LUU, AN T				
1109 MCKAY	DRIVE	1		ART UNIT	PAPER NUMBER	
SAN JOSE, C.	A 95131		2816			
				MAIL DATE	DELIVERY MODE	
				06/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/575,958	DUVILLARD ET AL.				
		Examiner	Art Unit				
	•	An T. Luu	2816				
•	The MAILING DATE of this communication app		I				
Period fo			· ·				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DOWNS IN THE MAILING TH	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 12 A	<i>pril 2006</i> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	·					
5)□ 6)⊠ 7)⊠	Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4.8 and 9 is/are rejected. Claim(s) 5-7 is/are objected to. Claim(s) are subject to restriction and/o						
Applicat	ion Papers						
9)[The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicativity documents have been received in Rule 17.2(a)).	tion No ved in this National Stage				
Attachmen			·.				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D					
3) X Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 4-12-06.	5) Notice of Informal 6) Other:					

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DETAILED ACTION

Claim Objections

1. Claim 9 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. There is no further or additional limitation pertaining the frequency divider recited in parent claim. In fact the frequency dividers, recited in claims 1 and 9, are identical.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There appears to be typographical error since the limitation "input of the or each multiplexer" is not clearly understood. For examining purpose, Examiner considers the above limitation as "input of the multiplexer".

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-4 and 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by the Austin et al reference (US Patent 6,009,139).

Austin discloses in figure 3 a frequency divider an input terminal for receiving a clock signal CLK whose frequency is to be divided, an output terminal (OUTPUT) for outputting a frequency divided clock signal, wherein the frequency divider comprises a shift register (20) having cells (L0-L7) for storing each bit of an initial word, said cells being series connected in a loop (as shown), and said shift register being capable of shifting each bit of the initial word from the cell in which it is stored to the next cell in the loop at a rate clocked by the received clock signal, and wherein the output terminal is connected to the output of one cell, i.e., cell L7, of the loop of series-connected cells as required by claim 1.

As to claim 2, the Abstract and col. 1, lines 33-43, disclose the number of cells connected in series in the loop is adjustable, and wherein the frequency divider comprises a control unit (i.e., circuit for providing p0-p6 signals) to adjust this number of cells in order to achieve a desired frequency divider ratio.

As to claim 3, figure 3 discloses the shift register comprising at least one MUX M3 to adjust number of cells in the loop.

As to claim 4, figure 3 discloses each input of the multiplexer M3 is connected to the output of a respective cell of a group of series-connected cells (L3, L4), and an output of the multiplexer is connected to a next cell L5 in said loop, and wherein the control unit (i.e., circuit

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for providing p0-p6 signals) is able to control said at least one multiplexer in order to select which input of the multiplexer is connected to its output.

As to claim 8, cells L0-L7 are shown as flip-flops.

As to claim 9, the scope of claim is the same as that of claim 1. Therefore, it is rejected for the same reason set forth above.

Allowable Subject Matter

- 6. Claims 5-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to disclose an apparatus comprising elements being configured as recited in claims. Specifically, none of the prior art teaches or fairly suggests the limitation "the cells used in the loop of the shift register are selectable in either one of a first and a second group of cells, each cell of the first group always being initialized with a logic one, and each cell of the second group always being initialized with a logic zero" as required by claim 5.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to An T. Luu whose telephone number is 571-272-1746. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

An T. Luu 5-22-07

Kenneth B. Wells Primary Examiner